

In my time at the Massachusetts Institute of Technology, I have researched some of the most cutting edge technologies in toxicity testing.

In vitro cell culture testing methods have been around for decades, and have been proven effective in both research and industry environments. Current methods using live animal specimens are unreliable and prone to error. In vitro testing allows tests to be preformed in a much more controlled environment with a higher level of specificity than traditional animal testing methods. When combined with current computer modelling methods, in vitro cell testing has been shown to be more than 10 times more effective than traditional animal tests.

I would recommend that in vitro testing immediately replace all animal testing in lethal dose studies, and computer modeling be used to supplement such tests. Both the in vitro and computer modeling techniques have been in use for years and will provide a higher level of accuracy and speed to ensure a maximum level of safety.

Thank you,

Rusty Lee